

SUBSTITUTE SPECIFICATION

BACKGROUND AND SUMMARY

- [0001] The present disclosure relates to a flanged joint. The flanged joint comprises at least one flat gasket held between the facing flange surfaces of components, such as lines or container parts, which store or guide a pressurized medium.
- [0002] Such flanged joints are known from the prior art, wherein the flat gasket has the function of sealing the flanged joint as hermetically as possible with respect to the environment. Sealing the flanged joint with little or no leakage of environmentally hazardous media, such as oils, acids or toxic gases, is becoming ever more important in view of increased environmental consciousness and legal regulations, such as the TA 2003 air regulation or the VDI 2440 standard.
- [0003] Such flanged joints often have a drawback in that, due to the continuous contact with the aggressive and/or high-temperature media guided through the lines or stored in the containers, the flat gaskets decompose or dissolve and have to be replaced after a certain amount of time, which adds to personnel overhead.
- [0004] The present disclosure, thus, relates to a flanged joint having at least one flat gasket that has an increased service life and is essentially maintenance free.
- [0005] The present disclosure relates to a flanged joint for a pressure medium. The flanged joint includes a first component and a second component having an interior. Also included is at least one flat gasket held between facing surfaces of the first and second components. An annular groove and a radially opposed working diameter are located between the interior and the at least one flat gasket. At least one lamella ring is held in the annular groove and biased, essentially without a gap, against the working diameter.
- [0006] The present disclosure thus includes, as noted above, arranging, upstream of the at least one flat gasket in the direction of the pressure difference from the pressure side to the environment side, at least one lamella ring that is held in an annular groove. The at least one lamella ring is biased, essentially without a gap, against a working diameter radially opposing the annular groove. In the context of a lamella ring, the working diameter means the diameter of a surface facing the annular groove which receives the lamella ring and